Cargo Unmanned Aerial Systems (Cargo UAS)

A-160 Hummingbird

K-MAX

MUVR

Current Cargo Unmanned Aerial Systems Platforms & Future Concept

DESCRIPTION

- The terrain and weather combined with counter insurgency operations in Afghanistan constrain traditional logistics resupply methods and have presented significant operational challenges that frequently place Soldiers and equipment in extreme high risk.
- The Cargo UAS project is tasked with developing a cost benefit analysis that assesses operational affordability of operating a cargo UAS capability for resupply to augment existing cargo delivery systems, compared with other courses of action.

- **Stakeholders:** G-44D, G-43, G-3/5/7, CASCOM, TRADOC/ARCIC, USAACE, USMC, Joint UAS CoE, Air Mobility Command, AATD

MILESTONES

✓ Army UAS Roadmap	Feb 10
✓ UAS Requirements Analysis	May 10
✓ Cost Benefit Analysis	Dec 10
✓ G-4 Conclusion & Recommendation Briefing	Mar 11
✓ Joint Cargo UAS CONOPS	Sep 11
✓ Cargo UAS Lifecycle Analysis	Sep 11
✓ USMC Cargo UAS Theater Deployment	Nov 11
✓ AATD JCTD	Dec 11
✓ Optionally Piloted Vehicle Study	Dec 11

STATUS

- Efforts to Date
  - LIA Member: CASCOM Sustainment Advisory Group, writing the AR 5-5 Report, Future Modular Force Resupply Missions for Unmanned Aircraft Systems
- Current Efforts:
  - LIA partnership with USMC's deployment of Cargo UAS to Afghanistan for testing and demonstration.
  - LIA partnership with AATD on Army's Joint Capability Technology Demonstration
  - LIA Member: Joint Unmanned Aircraft Systems Working Group, developing Joint Cargo UAS Concept of Operations (CONOPS).
  - LIA Member: US Army Aviation Center of Excellence, Optionally Piloted Vehicle (OPV) working group, assessing OPV as UH-60/CH47 can mitigate capability gap to provide routine aerial sustainment support.